

IN THE CLAIMS

Please cancel claims 1-20.

Please add the following new claims 21-35.

A complete listing of all claims in this application is set forth below.

Claims 1-20 (canceled).

21. (new) An assembly, comprising:

a resected natural humerus;

a natural acromion;

a glenoid surface; and

a humeral prosthesis having (i) a prosthetic stem component secured within said resected natural humerus, and (ii) a prosthetic head component including a glenoid-bearing portion and an acromion-bearing portion,
wherein, during abduction of said resected natural humerus, (i) said acromion-bearing portion contacts and bears directly against said natural acromion, and (ii) said glenoid-bearing portion contacts and bears directly against said glenoid surface.

22. (new) The assembly of claim 21, wherein:

 said resected natural humerus includes a medullary canal, and

 said prosthetic stem component is secured within said medullary canal.

23. (new) The assembly of claim 21, wherein

 said glenoid-bearing portion and said acromion-bearing portion define an outer bearing surface, and

 said outer bearing surface extends in a medial/lateral direction across a radial distance D, and (iii) $D > 190^\circ$.

24. (new) The assembly of claim 21, wherein

 said glenoid-bearing portion and said acromion-bearing portion define an outer bearing surface, and

 said outer bearing surface extends in a medial/lateral direction across a radial distance D, and (iii) $D > 200^\circ$.

25. (new) The assembly of claim 24, wherein D is about 220° .

26. (new) The assembly of claim 21, wherein said glenoid surface is a natural glenoid surface.

27. (new) The assembly of claim 21, wherein said glenoid surface is a prosthetic glenoid surface.

28. (new) The assembly of claim 21, wherein said acromion-bearing portion contacts and bears directly against an inferior surface of said natural acromion during abduction of said resected natural humerus.

29. (new) An assembly, comprising:

a resected natural humerus;

a natural acromion;

a glenoid surface; and

a humeral prosthesis having (i) a prosthetic stem component secured

within said resected natural humerus, and (ii) a prosthetic head component

including a glenoid-bearing portion and an acromion-bearing portion,

wherein, during abduction of said resected natural humerus, (i) said acromion-bearing portion contacts and bears directly against at least a part of said natural acromion, and (ii) said glenoid-bearing portion contacts and bears directly against at least a part of said glenoid surface,

wherein said glenoid-bearing portion and said acromion-bearing portion define an outer bearing surface, and

wherein said outer bearing surface extends in a medial/lateral direction across a radial distance D, and (iii) $D > 190^\circ$.

30. (new) The assembly of claim 29, wherein:

said resected natural humerus includes a medullary canal, and

said prosthetic stem component is secured within said medullary canal.

31. (new) The assembly of claim 29, wherein $D > 200^\circ$.

32. (new) The assembly of claim 31, wherein D is about 220° .

33. (new) The assembly of claim 29, wherein said glenoid surface is a natural glenoid surface.

34. (new) The assembly of claim 29, wherein said glenoid surface is a prosthetic glenoid surface.

35. (new) The assembly of claim 29, wherein said acromion-bearing portion contacts and bears directly against an inferior surface of said natural acromion during abduction of said resected natural humerus.